COMPANION,

OR

SUPPLEMENT,

TO THE

LADIES' DIARY,

FOR THE YEAR 1791:

Containing CALCULATIONS and TYPES of the Ectipses of this Year; with an Account of New Comets, &c.

Also additional Solutions to Diary Enigmas, Rebuses, Charades, Queries, and Questions, which there was not room for in the Diary itself;

With some New Enigmas, Rebuses, Charades, Queries and Questions, to be answered next year.

By the DIARY AUTHOR.

SUPPLEMENT

TO THE

LADIES DIARY,

FOR THE YEAR 1791.

Answers to the Prize Enigma, Poft.

11. Sonnet to Happiness, by Mr. Phil. Rusher.

OH happiness! great object of mankind,
Tell me, oh! tell me, where is thine abode:
Tho' all admire thee, few, how few! can find,
In men's esteem so various is the road.
The miser seeks thee 'midst his hoarded store;
A Post or pension is the courtier's aim;
Ambition sighs for power, the bard for same:
The sailor loves to rove from shore to shore.
By diff'rent minds still diff'rent means are try'd,
As diff'rent motives actuate mankind.
Then where, oh happiness! dost thou reside?
If found at all, in a contented mind:
But seen so rare on earth, the truly wise
Seek thee alone in realms beyond the skies.

Thou idle, ill-natur'd, thou vile, drinking fot!
Come home, or I'll break both your pate and your pot;
Come home, rogue, and let your poor children be fed;
Who're clothed in rags, and now crying for bread.
You beat me, you rascal, from pillar to post,
Till my patience and almost my senses are lost:
But depend upon this, I no longer will fear;
The law, thou arch villain, shall stop your career.

13. Strephon's Address to those filent young Readers who solve all the Énigmas, Rebuses, &c. and compose poetical Answers, with some faint Intention of sending them to the Diary, but are prevented by their own modesty.

Ye modest youths to venture,
Your self-condemned lines to write,
And by the post them enter

To Diary fair, whose joyous care,
Is justly to select them:
And if she find them to her mind,
Will publickly respect them.
But if they with much fault appear,
She'll candidly conceal them:
Which, zealous strive to mend next year,
When pleased, she'll reveal them.
Chear such a flame to raise your name,
Tho 't fail of the intention;
The good of man and author's plan
Is wrought by such contention.

14. The Message, by Lavinius.

15. O, dull as a Post! tell me, what shall I do?

This Candlemas-day is so near;

Apollo, attend! to thy promise be true,

And banish this torturing fear."

The God heard my pray'r, and most graciously said,

Go tell thy adorable Di, Her praise, since the moment her plan was first laid, Has rung thro' the high-vaulted sky.

I thank'd him in raptures, and cry'd, "It is done!"
"Not yet, youth!" Apollo replied:
"Go, bid her the maze of diffension to shun,

Alone to the gen'rous ally'd.

And bid her, my darling! as yet she has mov'd, To move in the path of fair same; So, justly by virtue and learning belov'd, Shall ages to come bless her name."

To a draper's Allenus once Posted away,
A pair of new breeches to buy;
The pieces were reach'd him without more delay,
When Allenus cry'd, "Pray let them lie:

I think I'll confult my Anna to night, I would not proceed harum-scarum."

Sly Ellwand reply'd: "Sir, you're much in the right, For they ought to choose who will wear them."

16. The Invitation, by Longsbanks, addressed to Miss T-

Dear Peggy come, hasten to meet Your friends on the side of the hill, To study the Diary complete, And partake of its pleasures your fill.

G 2

Come quickly, and find out the prize, Or my servant post haste I will send. Once more let me gaze on those eyes That have made me your servant and friend.

ALL THE ENIGMAS ANSWERED.

| ALLTH | E ENIGMAS ANSWERE | D. |
|--|--|---------|
| 1. Cradle, 2. Garland, 3. Pen or Quill, 4. Dream, | 5. Hope, 6. Lamp, 7. Nutmeg, 8. Wink, 9. Dew, or V 10. Smile, 11. Health, Prize, Post. | apours, |
| 12. The Statesman | n and Clown, by Mr. Rob. Allan Middleton, Yorksbire. | son, of |
| And ever | ious thought the statesman plies. y scheme and effort tries, | |
| To gai | n his fov'reign's smile: | 10 |
| And all h | ns of places, pensions, Posts, is stock of Health exhausts | Pr. |
| In unfo | accessful toil. | 11 |
| The Spice | in vain the <i>rofes</i> bloom, of flied their rich perfume, ural fcenes invite: | 2 |
| Where vi | n and court his Hopes retain, ce and noxious vapours reign, | 5 |
| | amps Wink out the night. | 6, 8 |
| Who in Enjoys Cheerful At night | rent is the rustic's lot, his low but peaceful cot, content and health: he labours through the day, he lulls his cares away, hs for ease and wealth. | ı |
| | y Miss A. B. of Charles-fireet, Sobo- | C |
| Repofing | on my downy bed, | jquare. |
| Gay Dress | orning as I lay, | |
| It was | the first of May. | 4 |
| | 'ry Garlands wreath'd on high | 2 |
| | ncy'd eye-fight drew, | 8 |
| And nym | ightly o'er the Dew. | |
| | nam'd Health; a bev'rage brought, | 9 |
| Of milk | with Nutmeg crown'd; | II. |
| Elate with | Hope each bosom wrought, | 7 5 |
| The Gr | aces mov'd around. | 10 |
| A Post of For wh | honour feem'd the prize, ich they all prepare: | Pr. |
| | | |

| | Enigmas answered. | 101 |
|-----|---|-----------------|
| | My Lamp fell down with clatt'ring I wak'd to human care. | noise, 6 |
| 14. | On Improvement of Time, by Mr. W. Beverley. | P. Burman, of |
| | Dear ladies, last year's Hope is run, Another has its course begun, | 5 |
| | And Posts continual on; | Pr. |
| | Thro' which life passes like a Dream | |
| | Or Dew drops in the fun thus feen 'Twill foon, alas! be gone. | ; 9 |
| | Let wealth with Smiles the poor befri | |
| | Since life, like taper, foon must end, | |
| | Tho' Health may now appear; | 11 |
| | Reflect on this, and think how soon Betwixt the Cradle and the tomb | |
| | That Garland's wither'd here. | |
| | Ye drunkards, and ye idle, who Your time and money spend in she | |
| | And feast on spice repast; | 7 |
| | Pen down this, and fober be, Since time's the great devouring fe Where you must plunge at last, | a, 3 |
| | 15. Ode to Spring, by Mr. John Burrow | of Boltonfield. |
| | Come, gentle muse, and let me sing | |
| | The beauties of the Healthful sprin And hail the lovely guest; | g, 14 |
| | For it Posts on with gentle pace, | Pr. |
| | And Smiling shews its cheerful face, In vernal softness drest, | 10 |
| | The Lamp of day advancing nigh, | 6 |
| | Whose warm beams glancing from Still cheers us more and more; With gentle gales enrich the earth | |
| | To bring the Indian spices forth, And wast them to our shore. | 7 |
| | The feather'd fongsters of the air, Whose nests are penn'd with art and Sweet harmony do keep; Transported at returning spring, While zephyrs gently born on wing | |
| | Do rock their young asleep. | 1 |
| | The fnow-drop, bright with morni Does in pure robes of lilied hue First of the train appear; | ng Dew, 2,9 |

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| | Gay daifies deck the verdant mead, And grace the bluthing year. True emblem of the joys above, O! may we still our minds improve While on this earthly shore; That when life like a Dream is past, We Hope we may in heav'n at last Rejoice for evermore. | 4 |
|----|--|------|
| 5. | Mr. Thomas Eland's Address to Mr. and Richardson. | Mrs. |
| | Hail happy pair, I greet you now, Soft partners in the nuptial vow; Long may you live in <i>Health</i> and peace, | 11 |
| | And rolling years your bliss increase: | •• |
| | Let each a Lamp to other prove | 6 |
| | In the kind offices of love; Strive who shall serve, not who shall sway, Who loves the most will most obey: | |
| | Wink at the foibles each may have, | 8 |
| | Perfection is beyond the grave. Soon may your happy cot be stor'd | |
| | With children Smiling round your board; | 10 |
| | Who, like their Dad. and Mam. may rife Diarian champions for the prize. | |
| | Let the gay dreamers of gay Dreams, | 4 |
| | For Posts of honour plan their schemes, | Pr. |
| | You in your rural cot shall find Domestic happiness refin'd; | |
| | View, with increasing joy and pride, | |
| | The Cradle rocking by your fide, | 1 |
| | Mich matter Bob, your hope and care, And Garland crown the little heir. | 2 |
| | Thus may you live, and thus enjoy | |
| | What nothing earthly can destroy: | 3 |
| | Late, very late, when death shall call, Tears shall, like Dew-drops, plenteous fall | 9 |
| | From every eye, -nor that suffice, | |
| | We'll bring the spices of our fighs. | 7 |
| | 17. The Enigmas answered by Miss A. F. | |
| | One fummer's eve I chanc'd to stray | |
| | Into a pleasant field, And pluck'd sweet flowers by the way: | 2 |
| | What pleasure spring doth yield! | • |
| | It makes the primrose in the woods, | |
| | The twinkling violets grow, | 8 |

| Enigmas answered. | 103 |
|--|----------|
| The trees all green with all their buds, The blushing rose to blow. | |
| I walk'd along o'er many a plain, | |
| And view'd the Smiling corn, | 10 |
| When list'ning to the funeful train, | 1 |
| The Post-boy ble w his horn. | Pr. |
| And pleasant to my ear it seem'd, | |
| Being Healthful, brifk, and gay, | 11 |
| Then thought perhaps I only Dream'd, Till he came fast away. | 4 |
| Receiv'd a letter from a friend, | |
| A Nutmeg was inclos'd, | 7 |
| She Hop'd a Cradle I would fend, Her child took no repose. | 5, 1 |
| Then wet with Dew return'd at night, | 9 |
| And made a little fire, Prepar'd my Lamp, my Pen to write, | 6, 3 |
| My wishes foar'd no higher. | ~ . |
| 18. The same answered by Mr. G. Harris, of | Finedon. |
| Dear lady Di, pray let me try Your riddles to explain, | |
| For they delight, in winter night, The fair to make out plain. | |
| A Cradle how we often know Does innocence beguile, | 1 |
| And Garlands gay, on sweet May-day, Do ease the milk-maid's toil. | 2 |
| They trip the plain, with each her swain, And lead the jocund dance; | 3 |
| No Dreamer's by, all mirth and joy, Except a maid by chance, | • |
| Whose Hope is past, of binding fast The hands of her and swain; | 5 |
| The Lamp's bright glass is broke, alas! And friendship's brittle chain. | 4 |
| They Nutmeg'd beer in bowls prepare, To cheer the rustic throng, | 7 |
| No nodding plumes, nor rich perfumes, | 8 |
| Attend young Roger's fong. | |
| The glist'ning thorn does deck the morn, | 9 |
| The feather'd people feen, | |
| And modest grace does paint the face | 10 |
| Of her who's May-day's queen. | |
| With mirth profound a <i>Health</i> goes round, To George our fov'reign king; | |

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| May each bold tar, Posted in war, Its spoils to harbour bring. | . 13 |
|---|---------|
| 19. Address to Lady Di, by Long Shanks. | |
| Dear madam, 'tis true, Great pleasure in you, | |
| Your yearly contributors find; The Garland of fame, | 2 |
| In Hopes for to gain, As you shew a compassionate mind, | 5 |
| Once more then I try, Or Dream I descry | _ |
| A Cradle, a Nutmeg, and Lamp; | 1, 7, 6 |
| A Wink, or a Smile, | 8, 10 |
| A heart may beguile, | |
| And the circle of pleasure may damp. | _ 9 |
| Devoid of a Post, | Pr. |
| Good Health I can boaft, | 11 |
| Alike free from fickness and pain; And far may they be | |
| From friends and from thee, | |
| And a reader I still shall remain. | |
| 20. A Birth-day Ode, by Lavinius. | |
| Rock'd no more in night's embraces, | 1 |
| While the morning gales arise, | |
| Sol, adorn'd in mildest graces, Darting crient o'er the skies. | |
| While the virgins from their slumbers | |
| Rise and weave their Garlands gay, | 2 |
| Something joins the flowing numbers, | 3 |
| Singing Celia's natal day. | |
| Lovely Celia, fair and blooming, | |
| Dreams of Hope and bliss inspires; | 4,5 |
| Cheerful all, and unaffuming, Lamp benign of chaste defires. | 6 |
| Spicy sweetness, ever charming, | 7 |
| Care-dispelling, laughing joy, | |
| Smiling welcomes, frolicks warning, | |
| Wink and wanton in her eye. | . 8 |
| Lo! her pale-brown ringlets flowing, Down her white neck artless rove: | |
| Maid endearing 1 panting, glowing, | |
| All that view her instant love. | |
| Prudence oft in whispers calling, | |
| Pointing to the rightful road; | |
| | |

| of St. Columb, Cornwall. | Fnigmas answered. 10 | 5 |
|---|---|----|
| Smile with kindness, smile on me; Gay, the rosy hours, delighted, Shedding odours, fresh and sweet, (All their weary steps requited) Swift would Post on even feet. Then, again, sublim'd by pleasure, Glad I'd sweep the trembling strings: Now, even now, in Fancy's measure, Hark! the muse, enraptur'd, sings: "Wake ye, shepherds! from your slumbers, Weave your garlands, virgins gay! Trip it, all! to softest numbers; This is Celia's natal day," Idress to Mrs. Blanch Lean, by Mr. David Robarts, of St. Columb, Cornwall. | Darling emblem of her God. Charms like these, and other merit, Might an abler bard inspire; Health of body, peace of spirit, Ev'ry heart must sure admire. Such she is, in grace refulgent, Such can never cease to be; | 9 |
| Shedding odours, fresh and sweet, (All their weary steps requited) Swift would Post on even feet. Then, again, sublim'd by pleasure, Glad I'd sweep the trembling strings: Now, even now, in Fancy's measure, Hark! the muse, enraptur'd, sings: "Wake ye, shepherds! from your slumbers, Weave your garlands, virgins gay! Trip it, all! to softest numbers; This is Celia's natal day." Idress to Mrs. Blanch Lean, by Mr. David Robarts, of St. Columb, Cornwall. | Smile with kindness, smile on me; | 0 |
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| "Wake ye, shepherds! from your slumbers, Weave your garlands, virgins gay! Trip it, all! to softest numbers; This is Celia's natal day." Idress to Mrs. Blanch Lean, by Mr. David Robarts, of St. Columb, Cornwall. | Then, again, sublim'd by pleasure, Glad I'd sweep the trembling strings: Now, even now, in Fancy's measure, | |
| of St. Columb, Cornwall. | Weave your garlands, virgins gay! Trip it, all! to foftest numbers; | |
| Ah! why too foon quit Dia's page? | of St. Columb, Cornwall. | s, |

21. Ad.

why too loon quit Dia's page? Which once fo much claim'd your regard; 'Tis not death !- no, nor ev'n old age, Your writing to her have debar'd. Thou charmer of my infant grief, Again be pleas'd fuch lines to write. To give afflicted minds relief, And fill the foul with calm delight. How oft in childhood was I pleas'd To hear thy numbers sweet rehears'd; If then with anger I was teas'd Oft'times my passions they revers'd. If a Cradle, a Lamp, or a Dream, Hope, Dew, Smile, Nutmeg, or Sight, 5, 9, 10,7, Or whate'er elfe might be the theme, Each in their Post they'd give delight. May Health in your dwelling abound, II As the Bloffoms adorn the fweet fpring; Whilst your works in this book shall resound, Be it mine in your praise still to fing.

22. Ode to Spring; answering the Enigmas, Rebuses, and * Charades, by Mr. Fos. Nendick, of Old Malton.

| Charades, by Mr. Jof. Nendick, of Old Malton. | |
|---|----|
| Once more Vertumnus decks the valleys, Woods and grottos, groves and dells, | |
| The matin lark in ether fallies Far above his transient cells. | |
| Twinkling Phebus now comes peeping, To salute the radiant morn, | 8 |
| Brown and Baldwin cease your weeping, Carmine does your cheeks adorn. | |
| Now weeping April's mildest showers Drop from yonder azure blue, | |
| And cheer the earth—spring Garland flowers, This sweet od'rons heav'nly Dew. | 2 |
| See how the streams from crystal fountains | 9 |
| In meanders gently glide, While Iris' self o'er burnish'd mountains, | |
| Smiles array'd in vernal pride. | 10 |
| In spring's gay morn confined debtors All express a gen'ral gloom; | 12 |
| But Clare unlock'd from bondage fetters, Justly boasts of rural dome. | |
| Now sprightly maids for sportive pleasures Perambulate the flow'ry dales, | |
| Where chanting birds in dulcet measures, Sweetly harmonize the vales. | |
| Lo, at some tavern, jolly topers | |
| Health impair by taper's gleam, And swallow chink down gaping coffers, | 3 |
| Heedless of a nightly Dream. | 4 |
| Waste not your time in recreations, The flow'r of life is quickly shorn, | |
| For death, how awful! tumbles nations As feythe and Gradle tumble corn. | 1 |
| Prepare your Lamps, ye sparkling lasses, To light you on to endless day; | 6 |
| Take Lee's advice—quick run your glaffes While you're in this house of clay. | |

^{*} Though we have inserted this general solution to the Enigmas, Rebuses, and Charades, it is not to encourage such general solutions, which we cannot approve of, as they are either unavoidably too long, or imperfestly describe the several subjects, or preclude a solution to the latter in the proper place; for which reason we hope none of our correspondents will attempt such sort of over-general solutions in suture.

| iznigulas aniweieu. | 104 |
|--|---------|
| 23. An Invitation, by Mr. John Singleton, of Ashton febool, near Wigan. | Free- |
| Come, Delia, let us post away | 12 |
| To yonder shady grove, | 8 |
| Where Smiles and Health their charms display To whisper tales of love. | 10, 11 |
| Lur'd on by Hope and fond defire | 5 |
| To tafte th' enamelt'd fweet, | 7 |
| We'll joyous roam, and still admire | |
| How circling moments fleet! | |
| A Garland of the choicest flow'rs | 2 |
| I'll there to you prefent, | |
| Nor Dream of ill within those bow'rs, | 4 |
| But joy and merriment. | |
| How sweetly we may there employ | |
| Our time within the dale! | |
| Nor Pens nor Cradle to annoy | 3, 1 |
| Our blifs as we regale. | |
| We'll feast on love while lasts the day, | |
| At night when Lamps appear, | 6. |
| O'er Dew-besprinkled lawns so gay, We'll to the town repair. | 9 |
| 24. Ode to Health, by Mr. Geo. Stevenson, of Howdon | n-dock. |
| Sweet nymph, whose Smiling air and face Cheers when beheld the human race, | 7, 10 |
| When absent, life's Lamp faintly shines, Our spirits droop and strength declines; | 6, 8 |
| Swift time all day feems then to creep, | Pr. |
| And troubled Dreams disturb our sleep: | 4 |
| Not spring's gay season then can charm, | 2 |
| Nor Dewy lawn-nor noon-tide warm. | 9 |
| May we, whilst thou and youth are near, | 11 |
| For your departure now prepare, | |
| And grace implore without delay, 'Till Hope is lost in endless day. | |
| 나가 되어 가는 얼마나 하는 것도 얼마나 있는 집에서 하는 것이다. 이 사람들은 사람들이 하는 것은 것이다. 나는 사람이 나를 다 하는 것이다. | 2 5 |
| 25. Strephon's Invitation, addressed to the Diar respondents. | y Gor- |
| Fain would my fault'ring muse invite ye, (Ye tuneful of Diaria's train) | |
| To these blest bowers that may delight ye, | . 1 |
| That bloom on mild Arcadia's plain. | 2 |
| Where Health and spring for ever Smiling, Nor Autumn's frown deforms the year; | 11,10 |
| 2 of 2 things in win detoring the year t | |

| 내가 있는 것으로 하면 하는 사람들이 가격하다 가득하는 것 같아 하는 것이 없는 것이 없는 것이 없다면 하는데 | |
|---|------|
| Spices nor Pens our hours beguiling, For rural mirth's unrivall'd here. | 7.3 |
| Here Damon with young Phillis wanders, And Collin with his fair Phebe, | |
| By yonder riv'lets lov'd meanders, And Delia arm-in-arm with me, | |
| Not only these, but all intreat ye, Throughout the whole pastoral train; | |
| Oh! might we humbly hope to meet ye, And make ye welcome to our plain. | |
| Unrock'd you'd close your eyes in slumber, Your Dreams be fill'd with fond delight; | 1, 8 |
| Till Sol, fair Lamp! shew without number, Dew-drops than diamonds far more bright. | 6 |
| And oft' we think how great the pity, That fuch a fweet and focial band | |
| Be doom'd to dwell in diff 'rent city, Difpers'd like you through ev'ry land. | |
| For once dear friends be congregated, Post to this pure celestial sphere, | 12 |
| With your lov'd muse be recreated, And constitute elysium here. | |
| | |

Answers to the Rebuses and Charades.

| Rebuses. | Charades. |
|-----------------|-------------|
| r Carmine | 1 Woman |
| 2 Baldwin | 2 Padlock |
| 3 Lambert | 3 Nightcap |
| 4 Louisa Harpur | 4 Ear-ring |
| 5 Henry Lee | 5 Snowdrop |
| 6 Miss Brown | 6 Tombstone |
| 7 Glass | 7 Rainbow |
| 8 Sally Clare | 8 Bondage. |

7. The Reproof; by Mrs, M. H.

For shame, Diarian Cynics! Gents forbear,
With "Wo on man," t' insult the British fair;
These two years past such woeful tales you've told
Of grandam Eve, and carefully enroll'd
Her gentle daughters, that I dare presage
You'll shortly banish from Diaria's page
Each charming semale candidate for same,
And consequently Dia's very name.
On Padlocks, Nightcaps, Ear-rings, wreak your spleen;
Let Snowdrops, Gravestones, Rainbows, Bondage, screen

The fair from blame and satire indirect, Nor Nature's last best gift want due respect.

| Nor wature's fait belt gift want due respect. | |
|---|-------------|
| 8. The Rebuses and Charades answered by Mr. W | |
| Burman, from a Tombstone of a very beautiful y | oung |
| Lady, in Beverley-Minster, who died January 1st, 1 | 700. |
| aged 18 years. | 190, |
| Blush not, ye fair, to own me, but be wife, | 1 |
| Nor turn from fad mortality your eyes; | |
| Fame fays, and Fame alone can tell you true, | |
| I once wore Ear-rings and look'd gay like you. | |
| Where are my vot'ries, where my flatt'rers now? | 4 |
| Since bound in Bondage from each lover's yow. | |
| Adieu those eyes, that by death Padlock's hung, | 8 |
| | 2 |
| No more, alas! is heard that Harper's tongue; | 4 |
| Adieu you roses red, and Snowdrops white, | 5 7 7 |
| And Rainbow too excluded from my fight; | 7 |
| Turn from your glass, and now behold in me | 7 |
| At once, what thousands can't, or dare to see. | |
| To Lambert's swains this lesson 'twill impart, | 3 |
| The truest dictates to direct the heart. | |
| | 2, 6 |
| The grave may terrify, but can't deceive. | |
| No more Miss Clare on beauty's aid depend, | 8 |
| Here youth and pleafure, age and forrow end. | |
| Here drops the Mask, and shuts the nightly scene, | 3 |
| Nor differs grave three score from gay fifteen. | |
| All pass alike to that same goal, the Tomb, | 6 |
| Both Lee's strong sense, and Woman's fragile bloom. | 5, I |
| 가루한 그렇게 다른 사람이 없어 되면 가득하다면 했다. 중요를 이용된 얼마하다면 가나들에게 하다라니다. | |
| 9. The Wedding, by Miss Betty Claxton, of Benwell, Newcastle upon Tyne. | near |
| The Carmine's come, prepare harmonious Lee, | |
| To paint Miss Brown, Sally Clare, and me; | 1,5 |
| | 6, 8 |
| Methinks I hear the sweet connubial throng | |
| Of lads and lasses tune the marriage fong: | |
| Health to Baldwin, to Miss Lambert peace, | 2, 3 |
| Love and concord evermore increase: | |
| With mirth and friendship make the Glass to pass, Hail welcome Harpur, that sweet lovely lass. | 7 |
| | 4 |
| 10. Address to Miss Harpur, by Mr. Jos. Cowing Newcastle upon Tyne. | g, of |
| How strange is the wonder, dear Harpur, we've here! | |
| Lo, Nightcaps and Padlocks, for ladies to wear. | 4 |
| Now trust me, I'm forry a Woman to blame, | 3, 2 |
| | |
| Who by a base husband is brought to such shame; | |

A plague on his jealoufy, dear Baldwin beware,
And lovely Mifs Lambert, fo gentle and fair,
Lest you should by Carmine be wheed!'d away,
And force your sweet blooms to a sudden decay.

11. The Charades answered by Mr. Rich. Dening, of Chardstock.

A Woman, a Padlock, and Ear-ring of gold,
Three of the Charades will doubtless unfold;
A Nightcap, a Snowdrop, and Bondage, if right,
With Tombstone and Rainbow, the whole bring to light.
6,7

12. The Rebuses and Charades answered by Mr. J. Elliott, of Malton.

No colour i' th' rainbow with Lambert can vie, Whose mind is less pleas'd with her glass than with Di: Miss Brown, Sally Clare, and Miss Baldwin, consent, To meet Lee and Harpur in Fame's Supplement; No Woman for Ear-rings in Bondage would be; Most sair ones from Padlocks now wish to be free, A Tombstone, like Snow drops, may fall to decay, But science shall last till Night caps the last day.

13. The same, by Mrs. Margaret Fitzgerald, of Old-Moss, Cheshire.

Your Charades and your Rebuses I'll here try to shew; Will not Carmine, with Baldwin, pray solve the first two? Lambert, Louisa Harpur, and learned Henry Lee, Will, as sure as a gun, make clear the next three; Brown, Glass, Sally Clare, I think, as I live, The other three answers will right truly give.

Now come on the Charades, and at them I'll slap; First Woman, then Padlock, and next a Nightcap; Then Ear-ring, and Snow-drop, with Tombstone, will straight Make three more appear, and bring unto light; Then Rainbow and Bondage come next to your eyes, And Post haste I fend them, in hopes of the prize.

14. The Charades, by Mr. Wm. Gradidge, of Canterbury.

Away dull Night, the morning rifes fair;

Come, Sylvia, come, and taste the fresh'ning air.

Hence gloomy thoughts of Tombstone, death, and age, 6,8

Some brighter subject must our time engage;

Say, lovely Woman, shall the priest unite,

And wedlock's joys confirm kind nature's right?

Dost say, why drop these accents to my Ear,

'Tis Cupid's bow that bids thee nought to fear;

Thy swain is true, then yield thy willing heart, And heaven grant us never more to part.

| | account of the minimercu. | 111 |
|-----|---|--------|
| 15. | The Charades in the Supplement answered by Hunt, of Stony Stratford. | Mr. J. |
| | Hark! what melody reigns in the grove. | 4 |
| | Now Snow-drops and lilies are feen; For 'tis spring is the "mother of love," 'Tis spring spreads a carpet of green! | 5 |
| | See the Raintow, whose beautiful dyes Encirle the watery cloud; | 7 |
| | What variety dazzles our eyes, What splendor by all is allow'd. | |
| | 'Tis the shepherd that ranges the fields, Unus'd to restraint, or to care; | |
| | Whose life true felicity yields, | |
| | So long as he meets with his fair. By the fide of a murmuring stream, | |
| | Whose pebbles transparent appear; | 6 |
| | Dear Phillis alone is his theme, He's happy if she is but near. | |
| | So their days in tranquillity move, | |
| | Nor know they ambition or noise; | |

Content crowns their innocent joys.

16. The Rebuses, by Miss Nancy Linsow, of Scalemire.

But with folitude, freedom, and love,

Dear ladies of fame,
Renowned by name,
Miss Sally her compliments sends,
And hopes it will be
Convenient to Lee,
To meet his Diarian friends.
With Baldwin the fair,
And Lambert, whose share
Of merit with Harpur can boast.
The rosy Miss Brown,
Whose value's unknown,
In many a Glass is a toast.

17. Ode to Modesty, by Miss Eliza S—, of the Dale.

Hail, lovely Goddess of the woodland scene,
Of accent mild, of sweetly-timid mien;
Advance in spotless innocence array'd,
Forsake the vale, be all thy charms display'd,
While rising blushes on thy cheeks bestow,
More lasting bloom than carmine's deepest glow;
Nor boasts the damask rose superior hue,
Impearl'd at morn, with orient drops of dews

| | In Baldavin's ev'ry grace thy pow'rs combine, | • |
|----|--|--------|
| | With lustre bid the mental beauties shine. | |
| | On Lambert's num'rous train of fighing swains, | 1 |
| | 'Tis thine, fast to unite the binding chains. | |
| | Ah! could I tune Louisa Harpur's lyre, | 4 |
| | Thy praises should each tuneful chord inspire; | |
| | But thou, devoid of ornament, can please, | |
| | Nor need'ft thou crave the foreign aid of these; | |
| | Yon humble maid, foon as the shades are fled, | |
| | With hat of straw, and Nightcap on her head, | 3 |
| | Trips o'er the meads, divetted of each art | |
| | Save what thy natal charms fweet nymph impart. | |
| | When bolts nor bars, nor Padlock can confine, | 2 |
| | A gentler force thy filken cords entwine; | |
| | Thou lovlieft grace of Woman kind, ah! fay, | 1 |
| | From thee one moment who would wish to stray. | |
| 18 | . On the Death of a Friend, by Mr. John Singleto | n, of |
| | Ashton Free-school, near Wigan. | |
| | Alas, he's gone! the much-lov'd youth is flown, | |
| | Yon Gravestone shews he's number'd with the dead | ; 6 |
| | Grim death in Bondage holds him as his own, | 8 |
| | His Glass is run, his circling moments fled. | 7 |
| | No more with him shall I renew the tales | |
| | | , 6, 8 |
| | Nor talk of Lee within the flow'ry dales, | 5 |
| | Of witty Harpur, or of Baldwin fair. | 4, 2 |
| | No more shall I th' instructive lectures hear, | |
| | Which he of Rainbow or of Carmine told, | 7, 1 |
| | Whene'er we wander'd yonder woodlands near, Where Snowdrops fair their beauties all unfold. | |
| | How blest the Woman, who to such a fon | 5 1 |
| | Gives birth! the locks him in her fostering breast; | 2 |
| | On Ear-rings gay her fancy ne'er does run, | |
| | But in her Nightcap sweetly sinks to rest. | 4 |
| | : 10 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - | 3 |
| | 19. The Dream, by Mr. R. T- | |
| | Some gloomy winter's ev'ning, ev'ry year, | |

Some gloomy winter's ev'ning, ev'ry year,
Diaria's wit and well-taught pages cheer;
And oft the fair ones in her train conspire,
T' enforce the pleasures of a Christmas fire—
One ev'ning their productions having read,
I went, well pleas'd and entertain'd, to bed—
O'er me his downy wings sleep gently drew,
And on my senses shed his balmy dew;
When my yet sleeples soul a vision wrought,
In dream, which oft renews our waking thought—

A room there feem'd before my ravish'd fight.

Where luftres sparkling shed diffusive light, Where, in the bloom of youth, with grace advanc'd, To join the mazes of the circling dance, A lovely female train; each beauteous maid Above, or Carmine, or the lily's aid-The circling figure fair Miss Baldwin led-Miss Lambert next proceeds with active tread-But with what pleasure did my fancy view The fair Louisa Hartur these purtue; Whose sweetly-flowing verse, whose polish'd mind Reflect an ornament on Womankind-Whose ____; but whither my muse the verse prolong; Let prudence lock thy vain afpiring tongue; And leave to Henry Lee, who knows fo well, Her shining merits, and her charms to tell; Thy skill the beauties of Miss Brown invite, Whose fancy'd form afforded such delight; Methought a Glass ne'er shew'd a lovelier face, That none e'er mov'd with more majestic grace; Th' angelic maid my foul with transport view'd, With transport trac'd the maze the fair pursu'd-Miss Sally Clare too was the last to join, The last in order, though not last divine-Her form appear'd complete in ev'ry part, Adorn'd with ev'ry charm of nature's art-The Ear-ring, glittering through her auburn hair, Lodg'd on a bosom as the Snow-drop fair; The features of her face feem'd to conspire To fix th' admiring eye, and love inspire-Such were the charming maids my fancy knew, And other Cyprian belles appear'd to view-And now each lovely bosom pleasure cheer'd, And youth in all its gaiety appear'd-

With active step the sportive dance went round,
While dulcet notes in harmony resound—
Charm'd with the happy scene, my soul elate,
In sympathy (which nought of joy abates
Whene'er the fancy Morpheus makes his care)
Enchanted, seem'd their happiness to share;
Seem'd in the round to join each lovely maid;
By beauty's blooming charms and pleasure sway'd—
But oh! what words can to the mind impart
The sad sensations of my woe-fraught heart,
When to my gay enraptur'd thought appear'd
Sudden, a gloomy Gravestone horrid rear'd—

Ah! must those sweetly blooming charms decay? Must they become foul clods of earthy clay, And in the loathsome grave in Bondage lie! Those charms that with divinity may vie! The melancholy thought my foul opprest, And rous'd my mortal sense from drowsy rest.

The elegance of the foregoing solution must atone for the uncommon length of it. We shall be obliged to the ingenious author for his address, the next time he favours us with his compositions.

20. The Rebuses, by Tantalus.

Our friend Henry Lee, who's no foe to a Glass,
Has of late fall'n in love with a beautiful lass,
Sweet Louisa Harpur, a girl in her prime,
Whose ruddy complexion needs no aid of Carmine,
In such soft rural strains, he has told her his mind,
That he doubts not, the fair one to him will prove kind—
Now Baldwin, Brown, Lambert, and fair Sally may pine, 2,6,3,8
Nor longer pull caps for the fav'rite of the nine.

21. The Charades, by Mifs Thorpe, of York.

O'er vernal meads which Snowdrops grace, Eugenia stray'd alone;

Strong marks of grief o'erspread his face, While thus he made his moan.

"No Nightcap need I e'er put on, But pensive wander here;

For the dear Woman far is gone, My fuit she would not hear.

Oh! were I from love's Bondage free, In yonder Bow I'd find,

Fresh beauties rise, but ah! poor me, A Padlock's on my mind."

22. The Rebufes and Charades, by Mr. I. Tindale.

Whilst abler bards their muse invoke,
And strike the lyric string,
With minds quite free from Bondage yoke,
The charms of Baldwin sing.

Let me, a youth unskill'd, prepare
To sail on Dia's main;
My rudder steer'd by Brown or Clare,
The much-wish'd port shall gain.
I envy not Lee the laurel he gains,
Whose muse does the Rainbow outvie,
My only ambition is the favour t' obtain
Of lovely Miss Harpur and dear lady Di.

| Queries answered. | 115 |
|--|------|
| Ah! would the dear Woman attend to my tale, | 1 |
| Delighted the moments would move, | |
| Sweet violets and Snow-drops I'd cull in the vale, | 5 |
| And Ear-rings present to my love. | 4 |
| As a token of friendship Miss Lambert would give | 3 |
| A Nightcap and box of Carmine, | 3, 1 |
| And happy, dear fair one, together we'd live, | |
| If Padlock our hearts could entwine. | 2 |
| But if perchance that fate's deny'd, | |
| The Glass no longer cheers, | 7 |
| In Gravesione's aid I'll then confide, | 6 |
| And fink beneath my cares. | |

ANSWERS TO THE QUERIES.

Query 1. Answered by Mr. John Burrow, of Boltonfield.

Hobson was an inn-keeper at Cambridge, some say of Oxford, and kept a stable of hackney horses, which he let out for hire. The stable was a great length, and the door at one end, the horse next the door being always taken; and when returned, he was put in the stall next the other end; and every

the horse next the door being always taken; and when returned, he was put in the stall next the other end; and every one that wanted a horse was ordered to take that next the door, or none; hence came the phrase, "Hobson's choice;" that or none. Every horse, as he returned, being thus put at the other end of the stable, all the rest of the horses were shifted a stall nearer the door, till they had all gone round in their turns.

It is faid this is the same Hobion, the carrier, upon whom, on his dying in the time of the great plague, Milton wrote two droll epitaphs, which are printed among his miscellaneous poems. See also the preface to his Paradise Regained.

Query 2. Answered by Mr. Jos. Cowing, of Newcastle.

It is difficult to say when they originated; but we find them sist among the Heathens, and their oracles arose from the same source that idolatry sprung from. The hieroglyphic characters, used by the ancient Egyptians, were the first we find on record, and the chief of these symbols were called Osiris and Iss; the first being the symbol of the sun, or the revolution of the solar year; the second, that of the earth, teaching the Egyptians when to sow and reap; also to acquaint them of the time of the ebbing and flowing of the river Nile. These characters in process of time became deities, and had statues erected, temples built to them. The chief of these temples were two; that in Palestine, which in sacred history is called Baalzebub, and the other in Delphi, or Delphos, built in ho-

H.

nour of Apollo. The first of these, according to heathen theology, was built upon the spot of ground where Jupiter appeared to Bacchus (at his request, being straitened for water to refresh his army when warring against the Indians) in the form of a ram, and opened a fountain with his foot. This fable is nothing in fact but the history of Nimrod, the grandfon of Noah, where he is called in scripture, the mighty hunter before the Lord, because he by his means extirpated the wild beafts or robbers (or those Indians that haunted the deferts of Lybia where his temple was erected) that affaulted them. Hence this Jupiter is no other than Ham, the younger fon of Noah. It is for this reason that the Heathens gave this character Ofices, the name of Hammon (corrupted from Ham) or Ammon; and from hence arose thetitle Jupiter Ammon.-The temple of Delphos was founded upon a fimilar circumstance, and also arose from Osiris and Isis, which in fact were no other than Noah and his wife, which afterwards became the Jupiter and his wife Latona, fo famous among the Heathens.

The same, by Mr. John Jackson, of Hutton-Rudby School.

The first oracles we read of were Jupiter Ammon, in Africa, and Jupiter Dodonus, which latter was the most ancient oracle of Greece, and derived its name from Dodona, a mountain of Chaonia, in the region of Molossi, near which was a grove of oaks facred to Jupiter, and whose leaves were storied to have been vocal, though others report that two doves proclaimed the oracles. We also read of the oracle of Apollo at Delphos, which Vertullian and Vossius say was actuated by diabolical operation, and that the devils gave out ambiguous answers. We also read of Amphiaraus, and Trophonius, with many others: the latter made a great cave in Bœotia, where he used to give out his oracles; and after his death, it was faid a spirit entered into it, and supplied his place. But Eusebius, Aristotle, Demosthenes, and Cicero, with many others, were of opinion that oracles were only the cunning tricks of the prieffs, by which they imposed upon the credulous, under the colour of inspiration and prediction from the gods, who spoke by their mouths concerning things to come. And indeed the cheat is obvious; for their predictions were always given out in fuch ambiguous and obscure terms, that whatever was the event, the phrase could easily be wrested to prove the truth of the oracle; as when king Pyrrhus, before he made war with the Romans, consulted the oracle at Delphos, and received this answer, Aio te Aecide Romanos vincere posse, which he read, Te posse vincere Romanos; but being overcome by the Romans, he was told he ought to have read, Romanos posse vincere te. And many others might be quoted.

The fame, by Mr. Henry Mellanby, of Stockton upon Tees.

The most famous of all the Palestine oracles was that of Baal-zebub, king of Ekron, which the Jews themselves went to consult. The celebrated Kircher, to undeceive the credulous, and to account for some strange things that are related of the Delphic oracle, contrived and fixed a tube so in his bedchamber, that when any one came to call him at the garden gate, next to his lodgings, though they spoke no louder than ordinary, he heard them as plain as if they had been in the room, and returned them an answer with the same ease of conveyance. This tube he afterwards removed into his museum, and fixed it so artificially into a sigure that the statue, as if it had been animated, opened its mouth, moved its eyes, and seemed to speak; from whence he supposed the Pagan priests, by employing such tubes, used to make the superstitious people believe the idol returned the answer to their questions.

The same, by Mr. Geo. Stevenson, of Howdon-Dock.

Human nature has ever been fond to pry into futurity; whence the Pagan priests, for their own int rest and power. took advantage of this propenfity to establish oracles, and by cunning and deceit to impose upon those that inquired at them. It is faid that Lycurgus made frequent vifits to the Delphian oracle, that the people might entertain a belief that he received from Apollo the plan he afterwards communicated to the Spartans. These pious frauds were effectual means of eltablishing the authority of laws, and engaging the people to a compliance with the will of the lawgiver. One of the most ancient oracles was that of Jupiter at Dodona, where was the first temple ever feen in Greece. According to Herodotus, both this and that of Jupiter Hammon had the same origin, and both owed their institution to the Egyptia s. Their rife is wrapped up in fables; for two black pigeons, fay they, flying from Thebes in Egypt, one fertled in Lybia, and the other flew as far as the forest of Dodona. But the truth appears to be, that two priestesses of Thebes were carried off by some Phenician merchants, and that one was carried into Greece, the other to Lybia. At Dodona it was pretended that the will of Heaven was explained by the priestess, from the murmurs of a brook that flowed from the foot of an oak : and after this from the ringing of brazen kettles suspended in the air, and also by a voice out of the oak; whence it is easy to conceive the deceit, as the first two depended on the invention of the priestesses in contriving answers, and the last by concealing herself in the hollow of the oak, and delivering the answer from thence. The oracle of Jupiter Hammon returned answers by signs. The oracle of Apollo was one of the most famous of all antiquity; the priestesses pretended that they were inspired by an exhalation out of the earth. Besides these, it is said, there were above 300 more, most of which were in Greece. The general characteristics of oracles were ambiguity, obscurity, and convertibility; so that one answer would agree with several different and even opposite events; and this was generally the case when the event was in the least dubious. In this consisted all their art and all their knowledge; for when the question was plain, the answer was commonly so too.

Query 3. Answered by Mr. Robert Barwick, sen. of Ringslead, Norfolk.

It is plain that rheumatic joints, &c. are defective, and weaker than the other parts of the human body; and the air, being changed by the forerunner of worle weather, works upon those defective and weaker parts, while the other feel little or nothing of so small a change.

The Same, by Mr. John Elliott, of Malton.

The air in the blood vessels of an animal body balances the spring of air without, which equilibrium is destroyed by soul weather; therefore, people who are subject to the rheumatism, sciatica, &c. are sensibly affected with the change of the weather, and continue in pain till the equilibrium is restored.

The fame, by Mr. Jonathan Hornby, of Westerdale School.

The atmosphere affects the human frame by its weight, its moisture, its dryness, its heat and its cold. There are two forces that act upon the animal frame, and they are both equally necessary to the keeping up of vital heat and vital motion: the one force is that of the atmosphere pressing without upon the surface of the body; the other is that of the air expanding it within; and these two ought to be a counterbalance to each other. Hence, against change of weather, storms, the equilibrium will be destroyed, and people who are subject to the rheumatism, &c. will be sensible or the change of the weather, and continue in pain till the equilibrium is restored.

The fame, by Mr. Henry Mellanby, of Stockton.

The fibres leading to corns, calluses, &c. act like so many hygrometers, and consequently are affected against a change of weather, and cause the pain.

Query 4. Answered by Mr. John Burrow, of Boltonfield, There was lately a bed at my house, in which a good many

pigeons feathers had been put, as I have heard my mother fay. On this bed died several of my friends very composedly; so that I believe the report is utterly false.

The same, by Mr. Jos. Cowing, of Newcaftle.

This notion concerning pigeons feathers prolonging life is founded on Popish ignorance and superstition. What probably gave rise to this fancy, was its being the only bird used in sacrifices under the Mosaic law; and the divine Shechinah appearing in this form at the baptism of Christ, they concluded that it was a sacred emblem of immortality: thence the use of its feathers was prohibited in all civil concerns. As for the notion that weak people entertain concerning the torment endured by dying persons on a bed made either in part or wholly of pigeons feathers, it may be accounted for, perhaps, from the hardness of such beds. But indeed it sometimes happens, that a person cannot die upon a bed of any kind whatever.

The Same, by Mr. Henry Mellanby, of Stockton.

Perhaps this may be thought not without foundation, when it is considered that pigeons have no bile, the use of which is to sheath or blunt the acids of the chyle: and besides, their feathers must make an uneasy bed, on account of their being plucked while the pigeons are very young, and of course they must contain much blood, which, when dry, makes them hard and prickly.

The same, by Mr. A-s-

Pigeons feathers are I believe of very little worth, being short and hard, which is the only reason for their not being bought for the purpose of putting into beds; but it is a mere superstitious notion to think that persons will not die on such beds, or not so easily, except in this case, that the hard ends of the feathers coming through the bolster should give trouble to the sick person.

Query 5. Answered by Mr. John Burrow, of Boltonfield, near Appleby.

The oldest people in our neighbourhood say, it has been a common report ever since they can remember, that the Yorkshire people were bites or sharpers in dealing: and it needs little proving in our days now, as I believe all England has found to their cost, in clipping, sweating, and counterfeiting the coin of all forts; and I believe there are more rogues in Yorkshire than in all England besides. However, it is likely that the report may much exceed the truth, for I don't doubt but there are many honest people in Yorkshire, and the others not so bad as represented; for not long since, a tradesman want-

ing to go into Yorkshire to buy goods, was told by his neighbours the Yorkshire people would ruin him if he went among them: he said however he would go, for he thought they were not so bad as they were represented. But he soon repented of his rashness; for he had scarce entered the county, when riding on a rough road his horse stumbled, and the rider tumbled over his head. The horse being frighted ran away, and the master got up as soon as his hurt would permit him, and went to seek his horse, but had not gone far before he found a dead horse by the road side, which had lately been skinned; and not doubting but it was his own horse, he exclaimed, D—n these Yorkshire bites, they have stole the skin of my horse said le and bridle—shoes and all; d—n them, but they have been very quick; and so returned home, cursing the Yorkshire bites, and said there was no living among them.

The same, by Mr Rd. Cockrel, at Mr Phillips's Academy, Deptford.

Yorkshiremen are famed for carrying on an extensive commerce in horses; and it seems probable that the observation in question took its rise from it. They are keen and subtle in their dealings, because the diseases incident to these animals are numerous, and some of a dark and mysterious nature, which require great judgment and deep penetration to discover them on the one hand, and much skill and art to conceal them on the other. And they are more so than the people of other counties; 1st, because the above qualifications are so frequently called to action in their dealings with men of all parts of the kingdom; and 2dly, the constant traffic carried on among themselves at fairs, &c. For these reasons it is that no county can vie with them in that subtleness and keenness so observable in all their dealings.

The same, by Mr John Elliott, of Malton.

I have read somewhere of an English monarch sending for one thousand oars, or rowers, to one of the kings of Spain, who, not understanding the interpretation, or true meaning of the words, and being unwilling to disoblige his Britannic brother, sent him one thousand whores, and as many rogues; whom the English king being unwilling to send back, for fear of disobliging the Spanish king, sent them to Yorkshire to people that county.

The Same, by Mr J. Jackson, of Hutton-Rudby School.

Yorkshire is much the largest county in England, and on account of its numerous manufactories by much the most populous; and as such, its natives must in course be oftener noticed in their dealings than men of other counties, espe-

cially as the produce of their county, as well as of a great part of their manufactories, is vended in markets and fairs, which causes them to look sharp out, for fear of being imposed on by others, as well as others may apprehend the danger of being imposed upon by them.

The same, by Mr Henry Mellanby.

The ancient phr fe of " A Yorkshire bite," has perhaps led people to imagine that Yorkshiremen are more subtile in their dealings than other men. But if that he the fource fr m whence they derive the notion, Yorkshiremen are greatly wronged; for the phrase arose from that which is a credit to them, viz the hospitality they shewed to travellers fo that when those who were coming into Yorkshire, suppose from the northward, and having arrived (let us admit) at Stockton, a town bordering upon that part of borkshire, called Cleveland; and though it would have very well fuited to halt here for refreshment, yet the thoughts of faring better when they should get into Yorkshire, tempted them to persevere in their journey, with "Come, let us hold on a little farther, and then we shall get a Yorksbire bite;" meaning a bite, or bit of bread and cheefe, which was constantly given to any traveller who called at an inn for a pint of ale, &c.

Query 6. Answered by Mr Tho. Crosbey, of Peastraulm-Green, York.

It is very well known to those who make remarks on the changes of the atmosphere, that frequent small rains keep the air most, while heavy ones render it more dry and clear, by beating down the vapours; and those dingy, smoky appearances in the sky in very dry sultry stasons arise from the want of mosture sufficient to let through and render the atmosphere more clear and transparent, which seems to be the reason why those small clouds or vapours, which we so often see in sultry summer mornings, rising up higher in the atmosphere by their levity, so soon escape our sight.

The same, by Mr Adam Glendenning, of Morpeth.

Clouds, vapours, smoke, &c. expanded by heat, &c. ascend upwards, till they arrive at that height where the air is of the same weight or density with them; where they mix with it and disappear till the evering, when the sun's heat ceases, and they return again to the earth in drops of dew, &c.

NEW ENIGMAS.

I ENIGMA, By Mr Geo. Cowen.

Fly round the globe, ye artists, and proclaim;—
Let science bow, and hail my dear-lov'd name;

Smile ruftics too beneath my balmy wings; Let commerce laugh, the boast and pride of kings; Lo! now I live in Albion's isle cares'd, Her fons enjoy me now, and now are blefs'd. In my auspices blooming nature smiles, And madness finks beneath her artful wiles. Ambition too wou'd oft my ruin prove, Disturb my cares, and banish all my love: Her fifter pride, in gaudy plumes array'd, Wou'd deign to fend me to that dreary shade, Where terrors' king his myriads oft has laid. In Newgate's cells with pitying eyes furvey The fad distress in which my murd'rers lay; Despair and languor on each brow appears, And ev'ry face a horrid aspect wears. Ye fons of riot cease your vicious ways, Let not stern justice crop your blooming days; Know mortals this, and learn to praise my name, To raise its splendor, and support its same; For all your efforts shall like nothing prove To dispossess me of my realms above; Yea, I shall live, when this terrestrial ball By time's strong hand shall into ruins fall.

II. ENIGMA, By Mr James Davison, of Newcastle upon Tyne.

As when at midnight shapeless spectres rise, Of horrid aspect, and stupendous size, Before th' astonish'd view, confounding sear Ariests the heart; so too when I appear, Formless and vast, and from dull matter free, In awful state and solemn majesty, The feather'd quires forego their tuneful notes, And swell no more to melody their throats; The beasts domestic hasten to the shed, And lo! the globe itself is struck with dread.

Pale grifly Death, impartial tho' we call, And stricken by his blow, that reaches all, The potent monarch, as his slave, must die— Merits that name not half so well as I: For once, as sacred records us assure, Two persons were exempted from his power; But never was such difference made by me, Who deal, most rigidly, equality.

Rich, precious gems, and sparkling ores, that lie Far from the piercing sun's illustrious eye, Deep in the inmost bowels of the earth, To me their beauteous lustre owe, and birth.

When wild confusion held her dreary reign, I, brooding o'er the defolate domain, Saw the wide waste, triumphant; but, alas! When the ethereal orbs were form'd, I was From my most ancient, spacious realms expell'd, And have e'er fince divided empire held. But when the glorious monarch of the day No more around shall pour his dazzling ray; And when no more from Cynthia's borrow'd beams A filver flood of milder luftre streams; When you bright stars, coeval with the fun, Shall have their long-continu'd courses run, And dropping from their spheres obscurely die, Extinguish'd all the glories of the sky; Then shall again be rais'd my parted throne, And undivided fway for ever be my own.

III. ENIGMA, By Mr Wm. Evans. Behold, bright maids, a theme divinely rare! Sweet as yourselves, as amiably fair; A theme which all attention must engage, Unfung as yet in Dia's myftic page; And lay, ye fair, who deal in mystic fong, Ah! why have I escap'd a lay so long, Since to my gentle influence you owe The choicest sweets that mortals can bestow? I glad the mind, I brighten fortune's smile, And cankering care, and deep diffress beguile; At my approach all dire contention flies, And envy fickens at my fight, and dies; In jocund youth my fmiling beauty warms, And age but strengthens and improves my charms. I have a fifter, in whose softer face A kindred likeness of my features trace; Nor is it strange we should so much agree, Since the full oft derives her birth from me. Vice is my foe, for her destructive pow'r The pureit heav'n-born bleffing des devour; Yet the vain vot'ries of the haggard dame Wave my bright banner, and assume my name! The fawning, felfish, avaricious crew Make me subservient to their point in view: The toping tribe at Bacchanalian feasts Extol my worth, yet never know my sweets; Nay, all who folly or who fraud purfues, For this or that my facred name abuse. With fuch, awhile my op'ning beauties blaze, While feas are smooth, and all are halcyon days;

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But should mischance or caprice change the scene, Behold anon how alter'd is my mien, My warmths extinguish, and my beauty dies, And siends and monsters from my ashes rise.

IV. ENIGMA, By Mr Isaac Gumley, of Anfly, near Leicester.

When spring has enliven'd the winter-brown'd plains, And herbage and flow'rs give a j y to the swains, Then into existence behold me arise, A structure, admir'd by the grave and the wise.

Ere I am complete for my owner's abode, Many journeys are made, and much labour bestow'd; From the east, from the west, from the south, from the north, Materials to make me in plenty come forth. So neatly I'm made, and all things fo well fitted, I might to the eye of a Jones be summitted: Yet tho' with fuch neatness I'm commonly grac'd, That all must allow I'm a building of taste, In towns and fine cities I feek not a feat, But always prefer a fnug shady retreat; For thi ves, who too often in mischief take pleasure, I emolish my fabric, and pilfer my treasure; O wretches forbear, for I never hurt you, Give up this employ, and a better pursue. I'm high, I am low, I am large, I am finall, And juttly may fay I am known to you all; My inhabitants too you have frequently feen, In the woods, on the mountains, or tripping the green.

You've found me ere this, or your fancy is cold.

V. ENIGMA, By Mrs Hallilay.

When death with all his grimly ghois appear,
And requiems can't retard the widow's tear,
My birth is nigh—renown'd to fame I stand,
Exasted by the artist's skilful hand:
A quadrangle, emblaz'd with ev'ry hue,
Of black and white, of yellow, red and blue.
Though frequently the birds and beasts of prey
Like pillars stand, my grandeur to display;
Though Latin eloquence I much admire,
And even help to raise poetic fire,
A mournful herald near your door I keep,
Or in the facred edifice I sleep;
But here my brother does eclipse my praise,
And souls immortal from oblivion raise,

For Wolfe and Chatham in the peaceful shade, With all their pomp invoke the sculpture's aid. In arms I serve the great—'tis not my lot To wear new laurels in the peasant's cot. But should this pride awake the critic's rage, Whose trump is sounded in the mystic page, Forgive my caprice, and until next year Your filent monitor will not appear.

VI. ENIGMA, By Mr Henry Lee.

Hark !- 'tis Olivia thrikes the founding thrings; Each boilt'rous breeze be filent wille fhe fings; Let no rude footstep wound the trembling air, But rest on me, and charm'd, approach the fair. Tho' music's friend, alike its foe I prove, But ever friendly to the rights of love! O, could I tell the kindling charms I've feen, The am'rous parley of two loves between, Soft tales of paffion breath'd where I have been; Might I but speak (and but to speak the truth) Old age would burnish into blooming youth! " To arms! to arms!"—the fierce Thal ftris cries, And shouts of combat rend the vaulted skies; Sounds fuch as erft in Richmond's valley rung, Sounds that still ring in Pope's immortal fong! O, fatal flip, -- foil'd by the force of charms, I catch the maid class d in Sir Fopling's arms!

See proud Altea, deaf to Strep on's pray'rs, Laugh at his vows, and ridicule his tears; Whilst at the fair one's feet the lover kneels, I pangs prevent, or foften what he feels! Alike a bleffing to the vain I'm given, And he who treads the "thorny way to heav'n;" Th' enthusiast wild, who journeys on in strife. I foothe his steps, and ease the load of life. Let due reform perplex the harafs'd state, Or arts, or arms, engage the long debate, The matter broach'd--- (fo metaphists agree) The tongue of custom says, 'tis brought on me. How chang'd the scene! where stood pourtray'd the swain, The fandal'd chief, or Amazonian dame, See simply dress'd, great Albion's genius sinile, The pride of arts, and manufact'ring toil.

VII. ENIGMA, By Mr G. Lodge, of Linton. Within Diaria's lift I crave a place, Who no wild upftart am of modern race; No senseless fop, or vain pedantic elf, Who all things knows, yet does not know himself;

No wanton rake, whose fame such feats can boast, As drunken riots, or some injur'd toast: Unlike to thele, for near three thousand years, Recorded with good deeds my name appears; Well known in Egypt, and in ancient Greece, Brought there by Jason with the golden fleece; Nay farther back can go, 'tis known I've been By Adam oft in Eden's garden feen. Yet hush, be filent pride, 'tis vain to trace Exalted worth among the ancient race; Degenerate fons to honour have no claim; But their foul deeds difgrace their father's name : 'Tis thus with me, for in these latter times With horrid guilt I'm feen in groffest crimes ; The gamester and the glutton I attend, Combin'd with prodigals their gold to fpend; With rogues I am in constant compact bound, Therefore with them, in ev'ry kingdom found; Perhaps you now will fay, a wretch so base Shou'd not within the Diary have a place; Yet hold, be not so rash, fince you, ye fair, Have need of me, to make each grace appear: When at your fav'rite glass, nay farther too, When morning light appears I'm in your view, Nor feldom absent in the midst of night, Since then you have me in your piercing fight: To lawful marr'age I'm a needful friend, And at each wedding constantly attend: Enough is faid, but this will make me known, My aid to beggars more than kings is shewn.

VIII. ENIGMA, By Mr Tho. Trufwell, of Nuneaton.

Avaft, my dear ladies, make room once again, Admit me to tread the Diarian plain : Where, like the amazing Pantheon of old, Your nitches are fill'd with bright statues of gold .-Permit me to fing of a hero of fame, Whose valour has gain'd him so lasting a name; But first pray beware of his blood-thirsty actions, Nor with him e'er make any hafty contractions: If he asks for an inch, and you give him consent, It is scarcely an ell that will make him content; His two-folded weapon, wide spread on the plain, Has fever'd a thousand poor creatures in twain; But yet on the day that we wait for our fentence, We hope of his fins he will make true repentance; If so he may then live in hopes of forgiveness, And be heartily glad that he's finish'd his business.

With upright deportment can step to a hair,
He appears a-la-mede at a wake or a fair;
His business, dear ladies, oft leads him on high,
Where he sings like a lark when approaching the sky;
Tho' useful he is, you'll allow it most certain,
Beware, or he'll leave not a fold in your curtain.
One hint, dearest ladies, I shudder to tell,
He is oft to be found on the confines of h—ll;
Another, but ladies you'll think it uncommon,
To tell you the truth, he's a man and yet no man.

New REBUSES, CHARADES, QUERIES, &c.

I. Rebus, By Mr John Singleton, of Ashton Free-school, near Wigan.

What a person that's bald much admires for its aid, And two-fifths of a being divine, Will shew the abode of a charming fair maid, Who has promis'd ere long to be mine.

II. Rebus, By Mr Wm. Swift, of Stow. Five triangles set down fair, Exhibit a matter very clear, By insects made; pray what can it be That's puzzled my father, my uncle, and me?

III. REBUS, By Lavinius.

Daughters of Billingsgate declare to same,
What oft you stamp a sorry sister's name;
And you, ye sable breshren of the law,
What, like the elergy's, fills your frown with awe:
Three-sists of that to this, with care unite,
Will, gents believe me, usher into light,
What you, vain lordlings all, can ne'er posses,
Tho' riches, health exert their power to bless;
Tho' crown'd with all the prostrate world adore,
The hero's trophy, or the monarch's power:
But you, ye sair! in whom such sweetness reigns,
This wonder name—and take it for your pains.

IV. REBUS, or Paradox, By Mr Henry Lec.

As on her pad Louisa took the air,

I and my brother went t' attend the fair;

My brother, he, (but to be sure he's blind)

Prov'd to the damsel I was left behind:

She straight look'd back, and saw as clear as day,

I still was there, and ne'er had been away!

For fair Louisa thought my brother right.

I. CHARADE, By Aminicus.

Unto my favour'd first great God has giv'n Dominion over all beneath high heaven:
My next, a male of cloven-tooted fowl,
For daily food doth stagnant waters prowl:
My whole was found, as scripture hath reveal'd,
By Leah's first-born in the harvest field.

II. CHARADE, By Mr John Jackson, jun. of Cawood Hagg, Yorksbire.

What heart felt joy by thee my first was given, When all were in a deluge hurl'd by heaven: Indulgent next, a shelter most complete, 'Gainst winter rains, and summer's torrid heat: My whole, blest seat of innocence and love, A striking emblem of the world above.

III. CHARADE, By Mr S. Oxley, of Wolfingham, Durham.

My first is transient as the tend'rest flower,
Like spotless innocence, as fair and pure;
When orient sol darts forth his fervent ray,
Behold my second fall from yonder spray;
My whole is foremost of the gaudy train,
When winter's gone, and spring returns again.

IV. CHARADE, By Mr G. R. of South-Audley-Street.

My first was well known to a merry old knight, Who smil'd when my face he did see;

Were my second but fill'd, how vast the delight! Sure no mortal so happy as he.

How chang'd are the times, fince my whole was the taste, When my musical notes swell'd the grove! The empire's extinct, and the country laid waste,

Whose virgins I have soften'd to love.

I. QUERY, By B. C.

From whence arises the lustre of globules of rain that lie on the leaves of colewort?

II. QUERY, By Mr Henry Mellanby, of Stockton.

A crack in a bell, or in any other sonorous vessel, destroys its sound, whilst a hole, apparently worse, causes no such effect. Pray how is this to be accounted for; and what is the most effectual method of recovering the sound of a bell so damaged?

III. QUERY, By Mr. J. Hunt, of Stony Stratford.

What reason can be assigned, that is a bucket of cold water be shut in a room just painted, it will deprive the paint of its disagreeable scent, and also of its gl s?

IV. QUERY, By Mr John Liddell, of Habton.

Philosophers say, that the specific gravity of clouds, vapours, &c. that float in the atmosphere, is equal to that of the atmosphere where they are seen floating. If this be so, what is the reason that sometimes smoke rises up a chimney, and then falls to the ground again?

Answers to the Mathematical Questions, proposed in the last Supplement.

I. QUESTION, Answered by Mr Wm. Cook, at Mr Stervenson's School, Howdon-Dock.

Call t the time required; r = 1.05, the amount of 1 pound for one year; and a = 1 penny $= \frac{1}{240}l$. Then ar^t is the

amount of 1 penny for t years. Hence, by the question ar^t $= 240000000, \text{ and } 1.05 = 576000000000; \text{ then, taking the logarithms, } t \times \log 1.05 = \log 57600000000, \text{ and } t = \frac{\log 57600000000}{\log 1.05} = 507.80655 \text{ years, the time fought.}$

The Same, by Mr John Dalton, of South Cave.

Put d=240000000l. the whole debt; r=1.05l. and t the time fought: then, fince a penny is the 240th part of a pound, by the nature of compound interest it is $\frac{r}{240}=d$, or r=240d; therefore $\frac{\log 240d}{\log r}=\frac{10.7604225}{0.0211893}=507.823$ years, or 507 years and 300 days.

The same, by Mr Olinthus Gregory, of Yaxley, Hunts.

Put 240000000 = a; id = .004166 & c. = p; $i \cdot 05 = r$, and the time = t. Then, by comp. intr. $\frac{a}{p} = r$; and the fame in logarithms is $\frac{\log a - \log p}{\log r} = t$.

Therefore, $a = 240000000 - - \frac{8.380211}{9 = .004166 &c. - - - \frac{3.619789}{10.760422 (507.830)}$ years, the time.

Nearly in the same manner is the solution given by Messeurs James Adams, James Aston, Wm. Bearcroft, B. Benson, Wm. Boyer, John Bransby, A. Buchanan, jun. Tho. Bulmer, Wm. Burdon, Ra. Burton, Wm. Carfs, jun. John Gavill, Miss Betty Claxton, Rd. Cockrel, John Craggs, Tho. Codling, Tho. Crossy, John Elliott, Adam Glendenning, J. Hartley, John Haycock, Jonathan Hornby, Da. Kinnebrook, jun. Geo. Langburn, Wm. Laws, Tho. Lewis, Tho. Leybourn, John Liddell, Mancuniensis, Tho. Milner, Wm. Potter, T. Rae, Alex. Rowe, Ruricola, Andr. Simpson, Timo. Simpson, Henry Tickner, W. Virgo, Mrs. Jane West, Tho. Whiting, & Rod. Wilkinson.

II. QUESTION, Answered by Mr James Adame, of Stonebouse, near Plymouth.

The content of the rectangle being 20 ac. 2 rs. 8 p. or 20.55 acres, or 205.5 square chains, and the shorter side 12 chains, by division the longer side will be 17.125, or $17\frac{1}{8}$ chains. Also the proportion of the shares being $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, or as 20, 15, 12, the sum of which is 47; hence by proportion, as

47: 20.55:: {20: 8.74468 = Betsey's share, 15: 6.55851 = Beatrice's share, 12: 5.24688 = Barbara's share.

And if each of these shares, which are acres, be multiplied by so to bring them to square chains, and then divided by 12 the common breadth, the quotients will be the several lengths, viz. 7.287234, and 5.465425, and 4.37234 chains.

The same, by Mr James Ashton, of Harrington School, near Liverpool.

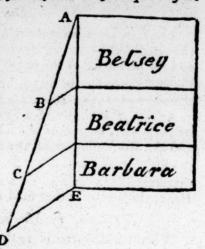
First 20 ac. 2 rs. 8 p. = 3288 square perches, and 12 chains = 48 perches: then $3288 \div 48 = 68\frac{1}{2}$ perches = the length. Now $\frac{1}{3} + \frac{1}{4} + \frac{1}{5} = \frac{20}{60} + \frac{15}{60} + \frac{12}{60} = \frac{47}{60}$; then by Single Fellowship,

47: 3288:: {20: 1399\$\frac{7}{7}\$ fq. perches = Betsey's share, 15: 1049\$\frac{1}{47}\$ - - - = Beatrice's share, 12: 839\$\frac{2}{47}\$ - - = Barbara's share.

Then each share divided by 48, the common breadth, gives \$914, and 2181, and 1745 for the distances to be set off.

The same, by Mr Wm. Carss, jun. of Newcastle upon Tyne.

The content of the field is 205.5 fq. chains, which being divided by 12, the shorter side, will make the longer fide 17'125 chains. Then a rectangle being laid down according to these dimensions, and any line AD drawn, and divided in proportion to $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{3}$, or which is the same thing, making AB = 20, BC = 15, CD = 12; then joining DE, and drawing lines parallel to it through the points B and C, they will cut the length AE in the points required.



Otherwise, by Calculation.

As 47: 17'125:: 20: 7'287 the first distance; then $7'287 \times \frac{15}{20} = 5'465$ the 2d distance, and $7'287 \times \frac{12}{20}$ or $\frac{6}{10} = 4'372$ the 3d distance. Then these distances multiplied by 12, give 8'744 and 6'558, and 5'246 acres, for the three shares.

The Same, by Mr Ra. Simpson, of Croxdale, Durham.

The shares are as $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{3}$, or as 20, 15, 12, whose sum is 47: then as

ac. ro. p. $\begin{cases} 20:8 & 2 & 39\frac{7}{17} = \text{Betfey's}, \\ 15:6 & 2 & 9\frac{17}{17} = \text{Beatrice's}, \\ 12:5 & 0 & 39\frac{2}{17} = \text{Barbara's}. \end{cases}$

These reduced into chains, and divided by 12, give 7'287 and 5'465 and 4'372 for the distances to be set off.

And nearly according to one or other of these methods was the solution given by Messeurs A—s—, Rob. Barwick, D. Beal, Wm. Bearcroft, B. Benson, John Birch, Wm. Boyer, John Bransby, A. Buchanan, jun. The. Bulmer, Wm. Burdon, Ra. Burton, John Cavill, Miss Betty Claxton, Rd. Cockril, The. Codling, W. Cook, J. C. Cove, Jos. Cox, John Craggs, The. Crosbey, John Dalton, Rob. Dowden, John Elliott, Wm. Farraday, Adam Glendening, Olinthus Gregory, J. Hartley. John Haycock, Jona. Hornby, Wm. King, Da. Kennebrook, jun. Geo. Langburn, Lavinius, Wm. Laws, The. Lewis, The. Leybourn, John Liddell, John Lomax, Mancuniensis, The. Milner, Rd. Nicholson, Geo. Penrice, Wm. Potter, Wm. Quaife, T. Rae, Geo. Roberts, Alex. Rowe, Ruricola, Andr. Simpson, Henry Tickner, Ra. Thompson, J. Whitsombe, The. Whiting, Rob. Wilkinson.

III. QUESTION, Answered by Mr Tho. Bulmer, of Thorp, Durham.

The two areas being equal; first take the diameter 1; then the circumference of the circle is - - - 3'1416, and the perimeter of the equal square is - - 3'5449, the difference should be 40, but is - - - '4033; therefore as '4033: 40:: 1:99'18 the diameter of the circle.

The same, by Mr Jos. Cox, of West-Wood.

When the diameter is 1, the circumference is 3.1416; and the fide of the equal square .886228, consequently the perimeter, or sum of the four fides, is 3.54491, and the difference is .403308; therefore, as .403308; .886228: 40: 87.8958 poles, the fide of the square estate; the content therefore of which is 40 ac. 1 ro. 5 perches.

The same, by Mr John Haycock, of Ware, Herts.

Put a = fide of the fquare; then is x^2 the area of each inclosure; and, putting $p = \sqrt{3.1416} = 1.77245$, then 2px = the circumference of the circle, consequently 4x - 2px = 40, and $x = \frac{20}{2-p} = \frac{20}{22755} = 87.89$ the side of the square, the square of which gives 7725.42 poles, or 48 ac. 1 ro. 5.42 p. for the area of each inclosure.

The same, by Master Billy Pearson, of North Shields.

Put x = the diameter of the circle; then is 3.1416 x = the circumference, and .7854 $x^2 =$ the area, both of the circle and fquare; consequently $\sqrt{7854x^2}$, or .886228 x is the side of the square, and 4 times the same, or 3.544912 x its perimeter: then, by the question, 3.544912 x - 40 = 3.1416x; or .403312 x = 40; hence x = 99.1788 poles; and the area of each inclosure is 48 ac. 1 ro. $5\frac{1}{2}p$.

Ingenious solutions were also given by Messieurs A—s—, J. A. James Adams, James Ashton, D. Beal. Wm. Bearcroft, Sam. Beastall, B. Benson, J. Birch, Wm. Boyer, John Bransby, A. Buchanan, jun. Wm. Burdon, Ra. Burton, Wm. Carss, jun. John Cavill, Miss Betty Claxton, Rd. Cockrill, Tho. Codling, Wm. Cook, John Craggs, Tho. Crosbey, John Dalton, Rob. Dowden, Elisha Dunton, John Elliott, Wm. Farraday, Adam Glendenning, Olinthus Gregory, J. Hartley, Jona, Hornby, Wm. King, Da. Kinnebrook,

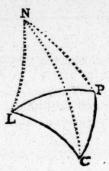
jun. Geo. Langburn, Lawinius, Wm. Laws, Tho. Lewis, Tho. Leybourn, John Liddell, John Lomax, Mancuniensis, Tho. Milner, Geo. Penrice, C. Pritty, Wm. Quaife, T. Rae, Ruricola, Geo. Roberts, Alex. Rowe, Andr. Simpson, Ra. Simpson, Henry Tickner, J. Whitcomb, Tho. Whiting, and Rob. Wilkinson.

IV. QUESTION, Answered by Mr. A. Buchanan, jun.

Let N represent the north pole, L London, C Constantinople and P Petersburg.

In the triangle PNC there are given NP the colat. of Petersburg = 30° 4',

NC the colat. of Constantinople = 49° , and \angle PNC the dist. of their meridians = $1^{\circ} 26'$; to find the \angle NPC = $176^{\circ} 40' 4''$, and \angle NCP = $2^{\circ} 12' 40''$.



Again, in the triangle NPL, are given

NL the colat. of London - - = 38° 29',

NP the colat. of Petersburg. - = 30 4,

and \(\sum \text{PNL} \) the dist. of their meridians = 30 19;

to find the \(\sum \text{NPL} = \text{1c3}\cap 2' 6'' \) and \(\sum \text{NLP} = 51\cap 39' 42''.

Also, in the triangle CNL there are given NC the colat. of Constantinople - = 49° 0', NL the colat. of London - = 38° 29, and \(\subseteq \text{CNL} \) the dist. of their meridians = 28° 53;

to find the $\angle NCL = 52^{\circ}10'53''$, and $\angle NLC = 106$ 39 11". Hence then the $\angle CPL = NPC - NPL = 73$ 37 58,

the \angle PLC = NPC - NPL = 73 37 58, the \angle PLC = NLC - NLP = 54 59 29, and \angle PCL = NCP + NCL = 54 23 33,

the fum of which three angles is 183 100.

Now if the earth's diameter be 7964 miles, the \$\frac{1}{4}\$ of its furface, or the area of a great circle is 49814110'9915 square miles, or 49814110'9915 \times 64 = 31881031035 acres, nearly. Hence, by prob. 21, page 196, Dr. Hutton's Mensuration, 1st edit. or pa. 202, 2d edit, as 180° or 10800': 3° 1', or 181': 31881031035: 534302465 acres nearly, the area of the triangle PCL, as required.

The same, by Mr W. Pearson, of North-Shields.

Let N be the north pole, P, C and L, Petersburg, Constantinople and London. Then in the triangle CNL given, CN = 49°, LN = 38° 29′, and the included \(\sum_{\text{CNL}} \) CNL or dif. of long. = 28° 53′; from hence CL = 22° 21′ 54″.

Again, in the triangle PNL, given PN = 30°4', LN = 38 29', and the included \angle PNL or dif. of long. = 30° 19'; from hence PL = 18°48' 35'.

Also, in the triangle CNP, given CN = 49°, PN = 30° 4', and the included \angle CNP, or dif. of long. = 1° 26'; from

hence, CA = 18° 57' 15".

Now, in the triangle PLC, the fides are all known; from hence, the angles P, L, C, are found 73° 38′ 2′′, and 54° 59′

20', and 540 23' 34', respectively.

Then, by prob. 19, part 3, Hutton's Mensuration, 1st edit. Ex. 1st, the whole surface of the earth is 198943750 square miles nearly; and by prob. 21, ibid. as 720°: 3°01555 &c.: 198943750: 833228924 square miles in the triangle PLC, which multiplied by 640, the acres in a square mile, gives 533266511, the acres required.

Ingenious answers to this question were also given by Messieurs James Adams, James Aston, Wm. Bearcroft, John Bransby, Tho. Bulmer, Ra. Burton, Wm. Carss, jun. Wm. Cook, John Craggs, Tho. Crosbey, John Elliott, Adam Glendenning, J. Hartley, John Haycock, Jona. Hornby, John Jackson, Da. Kinnebrook jun. Geo. Langburn, Wm. Laws, Tho. Leyburn, John Liddell, Mancuniensis, T. Rae, Alex. Rowe, And. Simpson, Ra. Thompson, and Tho. Whiting.

V. QUESTION, Answered by Mr Thomas Codling, Pupil to Mr 7. Fackson, at Hutton-Rudby-School.

The diameter of the nozzle, or cylinder, being $\frac{3}{8}$ of an inch = $\cdot 375$, therefore its area = $\cdot 375^2 \times \cdot 7854 = \cdot 110446$, which is the area of the end or base of the cylinder, and its content is 2 gallons = $2 \times 282 = 564$ cubic inches; therefore divide the content by the area of the base, and the quotient is the length, or velocity per second, which is $5106 \cdot 5$ inches, or 141 yards $2\frac{1}{2}$ feet.

The same, by Mr Geo. Roberts, of Slaley.

It is plain that the air flies over a space equal in length to a cylinder, whose content is 2 ale gallons, and the diameter of its base equal to that of the spout. Therefore, $\frac{3}{8} \times \frac{3}{8} \times$

The same, by Mr Wm. Bearcroft, of Kirby-moorside.

Since the celerity with which a fluid issues from any artifice is equal to the velocity of a body which describes a space of the same length with that of a cylinder, whose base is equal to the orifice, and magnitude equal to the quantity of the fluid that runs out in the same time, we have only to find the length of a cylinder, whose diameter and content are given: therefore, Put $d = \text{diam.} = \frac{3}{3} = \cdot 375 \text{ in. } c = \text{content} = 2 \text{ gal.} = 564 \text{ cubic inches, and } l = \text{the length fought.}$

Then dd x 7854 x 1 = 564 cubic inches; and confeq.

 $\frac{564}{dd \times 7854} = l = 5106.52 \text{ inc. or } 425 \text{ f. } 6.5 \text{ inc. the velocity}$ required.

This question was also ingeniously solved by Messieurs J. A. James Adams, James Ashton, Sam. Beastall, J. Birch, John Bransby, A. Buchanan, jun. Tho. Bulmer, Ra. Burton, Wm. Carss, jun. John Cavill Wm. Cook, John Craggs, Tho. Crosbey, John Dalton, John Elliott, Adam Glendenning, Olinthus Gregory, John Haycock, Jona. Hornby, Da. Kinnebrook, jun. Wm. Laws, Tho. Lewis, Tho. Leybourn, John Liddell, Mancuniensis, Rd. Nicholson, Wm. Fearson, Wm. Petter, C. Pritty, T. Rae, Alex. Rowe, Andr. Simpson, Ra. Simpson, J. Whitcombe, Tho. Whiting, and Rob. Wilkinson.

VI. QUESTION, Answered by Mr John Liddell, of Habton, near New-Malton, Yorkshire.

This question is the same thing as having the conjunction of two planets, and the times of their revolution about the sun given, to find when they will be in conjunction again, which is easily found by this theorem $\frac{ab}{a-b}$, where a=720 the revolutions the seconds hand makes in 12 hours, and b=1 what the hour hand makes in the same time; therefore, $\frac{ab}{a-b}$

 $\frac{720}{719} = 1\frac{1}{719}$, that is 1 min. & $\frac{1}{719}$ is the time between each conjunction. And because the hour hand is continually going, and makes 1 revolution in 12 hours, or 720 minutes, therefore there are 719 conjunctions every 12 hours.

The Same, by Mr Ra. Burton, of Salton, Yorkshire.

The hour-hand a watch makes its revolution in 720 minutes, for which put a; and the fecond hand makes its revolution in 1 minute, for which put b; then, by a known theorem, the time of a conjunction is $\frac{ab}{a-b} = \frac{720}{719} = 1\frac{1}{719}$ min.: also $a \div \frac{ab}{a-b} = \frac{a-b}{b} = \frac{719}{1} = 719$ is the no of conjunctions in the a or 720 revolutions.

The same, by Mr Tho. Leyburn, of North Shields.

The proportional motions of the hour and second mands of a watch are as 1 to 720; therefore 720 - 1 = 719 is the dif-

ference or gain of the one over the other. Hence, then as 719: 720:: 1: 1 7 19 min. the time after 12 when the hands next meet; also 1 7 19: 1:: 720: 719, the number of conjunctions they make in 12 hours.

Nearly in the same manner is the solution given by Messieurs James Adams, James Ashton, Wm. Bearcroft, Sam. Beastall. John Bransby, A. Buchanan, jun. Tho. Bulmer, m. Burdon, Wm. Carys, jun. John Cavill, Tho. Codling, Wm. Cook, Jos. Cox, John Craggs, Tho. Cresbey, John Dalton, James Davison, R. b. Dowden, Francis Eggington, John Elliett, Wm. Farraday, Adam Glendenning, Olinthus Gregory, J. Hartley. John Haycock, Jona. Hornby, N. Hoskins, Da. Kinnebrook, jun. Wm. Laws, Tho. Lewis, Mancuniensis, Tho. Milner, Tho. Mol. neux Rd. Nicholyon, Wm. Learson, Mm. Lotter, C. Pritty, Wm. uaife, Da Robarts, Geo. Roberts, Alex. Rowe. Andr. Simpson, t.a. Simpson, Henry Tickner, W. Virgo, J. Whitcombe, Tho. Whiting, and Rob. Wilkinson.

NEW QUESTIONS.

I. QUESTION 13, By Master Wm. Potter, of Newcastle Brewery.

Suppose a square back to contain 454 gallons, at 1 inch in depth; it is required to make a back in the form of a right-angled triangle, whose base shall be 555 inches, and its area equal to the former one; what must the perpendicular be?

II. QUESTION 14, By the Rev. Mr John Hellins.

Two young ladies at a boarding, school having received presents from their friends, thus talked of their money: said Lucy to Maria, if one of your crowns were added to mine, I should have an equal number with you. Yes, Lucy, enswered Maria, but if one of your crowns were added to mine, I should then have twice as many as you. Query, the no of crowns each had.

III. QUESTION 15, By Mr Rob. Dowden, of Woolla-

Mr. Hobbes has afferted in his Geometrical Roses, (lib. 2, prop. 11) that the tangent of an arc of 30 degrees, together with the tangent of 22° 30', make up the radius, or the side of that square which circumscribes the quadrant. Query, the truth or falsity of this proposition.

IV. QUESTION 16, By Ruricola.

In the month of November last, two country farmers, R and T, had in a large vessel, in form of the frustum of a cone, a quantity of cyder, which had been made at their joint expence;

each having furnished an equal quota of prime apples for the

purpofe.

The vessel which held it being full, they agreed to divide it between them as follows, viz. after dipping out about one fourth of the whole, to pour out what remained of R's share, which ought to be precisely one half, by inclining the vessel till they could see the opposite or upper edge of the bottom.

Ruricola' hearing of this curious business, got access to the vessel when empty, and carefully took its dimensions, which he found to be, top diameter 38 inches, bottom diameter 31 \frac{1}{4}, and the perpendicular depth 40; what was the value of the difference of their shares thus divided, at the rate of 15. 2d. the gallon?

V. QUESTION 17, By Mr Ralph Burton, Land Surveyor, at Salton, Yorkshire.

A gentleman intends to make a garden and pleasure ground, to contain 4 acres, 2 rods, 20 perches of land, statute measure, the form to be a regular polygon of 13 sides; he desires to know the exact length of a side, as also the radius of a circle that will circumscribe the polygon.

VI. QUESTION 18, By Master James Dale, Pupil at Billingham School.

A gentleman has a cooler whose length is 19 feet, breadth 15 feet, and depth 9 inches: he wishes the ingenious Diarians will inform him what diameter a hole in the bottom must be, so that the vessel may empty itself in 15 minutes; supposing the mean velocity of the water in all parts of the hole, at any one time, to be such as a heavy body acquires by falling through half the height of the sluid above it.

VII. QUESTION 19, By Mr Thomas Crosbey, of Peasehaulm Green, York.

April 8, 1790, when York cathedral clock struck 10, the length of a shadow of a two-foot rule was 34 inches on horizontal ground: whether was the clock too fast or too slow, and how much, the latitude being 53° 59°?

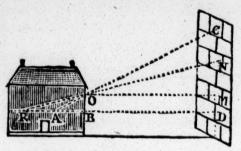
VIII. QUESTION 20, By Mr Jonathan Hornby, of Westerdale School.

Suppose, when Lunardi ascended with his balloon at York, he rose perpendicularly till Kingston upon Hull appeared in sight, Query, How many square acres of our island he might view, at that elevation, supposing the earth truly spherical, and its radius 3978 miles; the latitude of York being 53° 59', and its longitude 1° 6'40' west; also the latitude of Hull 53° 50', and its longitude 28 west?

Answers to Questions in the last Diary.

II. QUESTION 909, answered by Mr. George Penrice, Pupil in Mr. Tilney's School, at Harleston, Norfolk.

Having described the figure as per question, in which BO represents the height of the window, draw MO parallel to BD; put x = BO = DM, then CM: MO: BO: BA, and NM: MO:: BO: BR;



hence, BR – BA = AR, or $\frac{36x}{10\frac{1}{2}-x} - \frac{36x}{18-x} = 15$, which reduced gives $x^2 - 46\frac{1}{2}x = -189$, the roots of which are 42 and $4\frac{1}{2}$, but the latter only will answer the question.

III. QUESTION 910, answered by Mr. A. Buchanan, jun. of Sedgefield, Durham.

Divide the given equation by 4, the co-efficient of the first term, and $x^4 + 2x^3 - 22\frac{1}{4}x^2 + 7x + 12\frac{1}{4} = 0$. Then a = 2, $b = -22\frac{1}{4}$, c = 7, and $d = 12\frac{1}{4}$; therefore, because d is $= \frac{c^2}{a^2}$, $x^2 + \frac{1}{2}ax + \frac{c}{a} = \pm x\sqrt{\frac{2c}{a} + \frac{1}{4}a^2} - b$, (See Simpson's Alg. 5th edit. pa. 154), or $x^2 + x + \frac{7}{2} = \pm x\sqrt{7 + 23\frac{1}{4}} = \pm \sqrt{30\frac{1}{4}} = \pm \frac{11}{3}x$. Or $x^2 + \frac{2}{4} = \pm \frac{11}{2}x$. Whence, by completing the sq. &c. $x = \pm \frac{11 - 2}{4}$. $\pm \frac{\sqrt{69 + 44}}{4} = \pm \frac{11 - 2 \pm \sqrt{69 + 44}}{4}$; that is, $x = \frac{9}{4} \pm \frac{5}{4}$, or $\pm \frac{\sqrt{113} - \frac{13}{4}}{4}$. Or $x = 1, \frac{7}{5}$, or $\pm \frac{\sqrt{113} - 13}{4}$, the roots of the equation as required.

IV. QUESTION 911, answered by Mr. Rob. Dowden, of Woollavington.

It is proved at Cor. 7, pa. 199, Dr. Hutton's Mensuration, 2d edit. that the surface of a spherical segment is equal to a circle whose radius is the chord of half the segment, that is the surface ABK (Fig. in the Diary) is equal to the circle whose radius is the chord AB, and the surface HFL equal to

the circle whose radius is the chord FH; but these two surfaces are equal by the question, and therefore the chord AB must be equal to the chord FH. Now put a = DA = DB = 3982, b = GH = GI = 1096, 2d = DG = CG + CD, and 2x = CG - CD; then is CG = d + x, and CD = d - x. By similar triangles, $DC : DA : DA : DE = \frac{aa}{d - x}$; hence BE $= a - \frac{aa}{d - x}$, and $AB^2 = 2DB \times BE = 2a \times a - \frac{aa}{d - x}$; in like manner $FH^2 = 2FG \times FI = 2b \times a - \frac{ab}{d + x}$; but AB = FG, therefore, $2a \times a - \frac{aa}{d - x} = 2b \times b - \frac{bb}{d + x}$, which reduces to $x^2 + \frac{a^3 + b^3}{a^2 - b^2}x = d^2 - \frac{a^3 - b^3}{a^2 - b^2}d$, the root of which equation is $x = 115693\frac{\pi}{4}$

V. QUESTION 912, answered by Mr. Jonathan Hornby, of Westerdale School, near Whitby.

nearly; and hence BC = 3243 miles, the distance above the

furface of the earth.

After constructing the figure the same as in the Diary, then the angle of incidence being 45° , its sine is $\frac{1}{2} \sqrt{2}$ to radius 1, and therefore $3:4:\frac{1}{2}\sqrt{2}:\frac{2}{3}\sqrt{2}=$ sine of \angle F, its cosine $\frac{1}{3}=$ sine of \angle GAF; then $\frac{1}{3}:\frac{2}{3}\sqrt{2}:$ FG = $4:8\sqrt{2}=$ 11·3137085, the distance from the edge of the bason; and as $\frac{1}{3}:1:$ FG: 3 FG = 12 = AF, the distance of the eye from the same.

The same, answered by Mr. Geo. Stevenson, of Howdon.

Let CBH be the veffel; in A C produced take AC: CE: 3: 4, the fine of incidence to the fine of refraction, or make

CE = 3 inches, or $\frac{2}{3}$ of a foot, AC being 6 inches or half a foot; apply CG = CB to the perpendicular EG, which produce till the perpendicular FD be 4 feet.

Then, $CG = CB = \sqrt{\frac{1}{2}}$, $CE = \frac{2}{3}$, therefore $GE = \frac{1}{3}\sqrt{\frac{1}{2}}$; hence, by fim. triangles, GE : CE : DF : CF, or $\frac{1}{3}\sqrt{\frac{1}{2}} : \frac{2}{3}$: : 4 : 8 $\sqrt{2} = 11.314$ feet, the distance required.

3

VI. QUESTION 913, answered by Mr. Rd. Nicholson, at Mr. Allinson's Academy, Kirkdeighton, Yorkshire.

Now 8 min. of an hour answer to 2° of a great circle, the measure of time; and the sun's declination on the given day is 23° 28'. Then say, as the product of the sines of the declin. and time: radius²: S. sun's diam. 31° 34': tan. of an angle. Again say, as S. sun's diam.: S. of that angle:: S. of 2° time: sec. 61° 29′ 30", the lat. sought.

The Same, by Mr. Tho. Crosbey, of York.

Let a = fine of time = 8 min. or 2° , b = fin. of 3° 3° the fun's diameter, d = fin. of 23° 21° the declination, radius = 1, and x = fecant of lat. fought. Then $\frac{1}{x} =$ cofine of lat. dx = fine of the amplitude, and $\sqrt{1 - d^2 x^2}$ the cofine of the fame. Therefore, $\sqrt{1 - d^2 x^2} : x :: b : a$; hence $bx = a\sqrt{1 - d^2 x^2}$, and $x = \sqrt{\frac{aa}{b^2 + a^2 d^2}} =$ fec. of 61° 29° the lat. required.

IX. QUESTION 916, answered by Mr. James Ashton, of Harrington School, near Liverpool.

Let a = AC, b = EC = FH, c = BG, also x and $y = fine and cos. <math>\angle$ ACB, (fig. in the Diary): then $y : b : 1 : \frac{b}{y} = Hb$, and 1 : a : : x : ax = AB; also 1 : a : : y : ay = BC; then ay - c = GC; also ay or BC : ax or AB : : ay - c or $GC : \frac{axy - cx}{y} = GH$; then $Hb + Gb = \frac{b + axy - cx}{y}$, or $\frac{b - cx}{y} + ax = GH$ a max. this in flux. and substituting $\sqrt{1 - x^2}$ for y, reduces to $a \times 1 - x^2$.

EXAMPLE. Suppose the river be 10 yards broad, the length of the barge 12, and its breadth 4 yards; then a = 12, b = 4, and c = 10; hence $12 \times \overline{1 - x^2}$ = 10 - 4x, and here x = .4810187, the fine of $28^{\circ}48^{\prime}\frac{2}{3}$, and the breadth GH of the new cut is 4.848, very nearly.

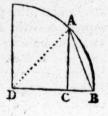
Schol. It may perhaps be worth observing, that the reclangle of the length and breadth of the barge, divided by the breadth of the river, will sometimes nearly answer the purpose; as in the present case $\frac{12 \times 4}{1000} = 4.8$.

XII. QUESTION 919, answered by Amicus.

It is well known, that the given equation pertains to a parabola, whose semiordinate is x + z abscissa y + z, and parameter unity: nor is there any difficulty in finding the area of the segment bounded by x and y, but lying without the curve, to be equal $79\frac{1}{4} + \frac{1}{2} \sqrt{5}$, as required.

XV. QUESTION 922, algebraically answered, by Mr. Jobs Cullyer, of Wicklewood, near Wymondham, Norfolk.

Let AD = DB = r, DC = x, and m the given multiple; then is BC = r - x, AC = $\sqrt{r^2 - x^2}$, AB = $\sqrt{2r^2 - 2rx}$, and $m \cdot AC - AB = m \cdot \sqrt{r^2 - x^2} - \sqrt{2r^2 - 2rx}$ the maximum; this in fluxions gives $\frac{mx}{\sqrt{r^2 - x^2}} = \frac{r}{\sqrt{2r^2 - 2rx}}$;



this reduced gives the quadractic equation $2m^2 x^2 - rx = r^2$, the root of which is $x = \frac{r+r\sqrt{8m^2+1}}{4m^2}$.

ERRATA in the Supp. for 1789, viz. in the last page, 5th line, for either equal to or greater, read, may be either less, equal to, or greater: in line 20th, read $Ad = \frac{1}{2}AD$): in line 21st, At = -10: in line 21 and 22, read $Ab = \frac{4ad}{b^2 - 4ac}$ &c. in line 31, for the two least roots, read the two greatest roots.

To Ruricola. Sir, I believe the most esteemed edition of Euclid's Elements, is that of Dr. Rob. Simson, of Glasgow; and that the easiest and best books for a new beginner to learn Fluxions from, is either Mr. Rowe's, or Mr. Tho. Simpson's. C. H.

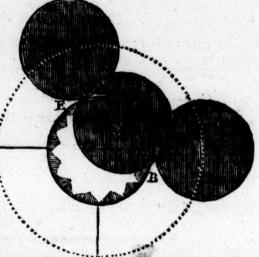
To the gentleman who enquires after the republication of the Diaries from the beginning till the yea 11773 inclusive by Dr. Hutton, viz. the Mathematical parts in 3 neat volumes, the Poetical parts in 2 volumes, and his Mathematical Miscellany in one volume, similar to the former; it may be observed, that those books are not yet out of print, but that they are still to be had of Messrs. Robinson, or Baldwin, in Paternoster-Row.

Of the Eclipses, &c. in 1791.

In the course of this year there will happen four eclipses, viz. two of the sun, and two of the moon; and one of each luminary will be visible in these parts; and the types, times, and circumstances, are as follow:

I. The first is an eclipse of the sun, which will happen on Sunday, the 3d of April, a little after noon, as below:

Begins o 17
Midd. 1 46
Ends 3 9
Durat. 3 52
Digits 7° 16'
the quantity eclipfed at the middle of the eclipfe, on the fun's northern fide. In the annexed type, drawn



for London or Greenwich, the eclipse begins at B, where the moon touches the sun at about 6° below the sun's horizontal diameter; the middle is at M, where the eclipse is greatest, the obscured part of the diameter being about 7 \frac{1}{4} parts out of 12, or the digits, as above; and the end is at E, a little to the left of the sun's vertex.

This eclipse is visible in all parts of Europe, and in a great part of Asia, Africa, and America. In parts towards the North of us, the eclipse will be larger, and it will be annular along the central track, though no where total, because the sun's apparent diameter exceeds the moon's at that time: at Iceland, for instance, it will be annular about their 12 o'clock at noon.

II. The second is an eclipse of the moon on the afternoon of Monday, the 18th of April. At Greenwich the eclipse begins at 15 min. past 3, and ends at 9 min. past 6; and the

quantity eclipfed being 9° 24', or rather more than three quarters of her diameter, on the fouth or lower fide; but it will not be vifible here, because the moon will not then be risen above our horizon. At the middle of the eclipse the moon is vertical a little to the South-East of Batavia, so that the eclipse will be visible to all the southern parts of the world, quite round the south pole, and to about 10 degrees on the side farthest from Batavia; a space including all Asia to the coast of Russia, the eastern parts of Africa, with New Holland, New South Wales, New Zealand, the Society and Friendly Isles, as Otahaite, &c. New Hebrides, New Calidonia, the Isles of Molacca, Borneo, Sunda, Madagascar, Java, Celebes, New Guinea, Japan, Yedso, the Manillas, the Philippines, and all that part of the world.

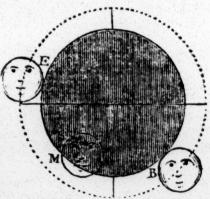
III. The 3d is a folar eclipse, on Tuesday the 27th of September, but not visible in Europe. The conjunction is at 11 h. 43 m. in long. 6° 40° 46' the moon's latitude being then 44' 40' south, and the sun will be centrally eclipsed on the meridian at 12 h. 15½ m. in long. 176° 7½ east and latitude 54° south, or a little south of New Zealand, and so the eclipse will be visible to all the isles of the great South Sea, as Otahaite and the Friendly Isles, New Hebrides, New Holland, Botany Bay, New Zealand, &c. where it will be a very great eclipse.

IV. The 4th, and last, is an eclipse of the moon, which happens early on the morning of Wednesday, the 12th of

October, as follows:

b. m.
Begins o o
Midd. 1 36
Ends 3 12
Digits 9° 17'

or the quantity eclipsed is a little more than three quarters of the moon's diameter, on the northern or upper side; the beginning being at B, the middle at M, and the end at E. At the middle the moon is vertical between 6° and 7°



north latitude, and near 24° west longitude, or a little south of the Cape Verd Islands; and therefore the eclipse will be visible to all parts at least within 90° of that point, quite around, a space that includes all Africa, great part of the Indian Sea, the western parts of Asia, the Atlantic Ocean, all Europe, Iceland, Greenland, Newfoundland, most part of North and

South America, with the isles of the West Indies. To the western parts of America the moon will rise eclips d, and at Madagascar and the East Indies, &c. she will set eclipsed.

REMARKS ON COMETS.

The Comet which was predicted to appear some time in the year 1789, has not yet been observed at the time of writing this; whether it has passed unobserved, or whether the two comets observed by App an and Hevelius were not really the same, or whether the attractions of the known, and perhaps unknown planets, may have influenced the comet to such a degree as to chante its path and time of appearance, are very uncertain. Within these two or three last years however some comets have appeared; whether any be the same with that which was predicted, or not; we shall from time to time announce such new comets, and other remarkable phænomena, as occur in the heavens, beginning with those lately discovered by Miss Caroline Heischel.

This lady is the fifter of Dr. Herschel, who discovered the new planet, and like himself an indefatigable observer of the heavens. She discovered her first comet at Slough, near Windfor, the 1st of August, 1786, about 10 at night; and it was several nights afterwards observed with telescopes, both by herself and other persons. The comet passed between the Great Bear and the Northern Crown, appearing through the telescope like a nebulus star, but rather brighter, and seemed to have a very imperfect and confused kind of gathered light about the middle, which could hardly deserve the name of a nucleus. It had also, besides a dissufed coma, a very faint and scattered light towards the north following part, extending to about 3

or 4 minutes, and losing itself insensibly.

The fecond comet Miss Herschel discovered in the evening of the 21st of December, 1788, near the star marked in the constellation the Lyre or Harp. Dr. Maskelyne and Dr. Herschel also viewed it, when it had the appearance of a considerably bright nebula; was of an irregular round form, very gradually brighter in the middle, and was about 5 or 6 minutes in diameter. No fort of a nucleus could be perceived, which must have been seen had it amounted to a single second in diameter. And the same want of nucleus has also been remarked in some other comets of late.

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